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## **Illinois Statewide Surgical Site Infections Report (SSI)**

### **Coronary Artery Bypass Graft Surgery (CABGS)**

#### ***Health Care Associated Infections***

Hospitals in Illinois are participating in programs to reduce the number of infections acquired during hospital stays. While it is difficult to reduce infections to zero, following specific protocols can greatly reduce the risk. The Hospital Report Card Act (Illinois Public Act 93-563) requires Illinois hospitals to report surgical site infections occurring following coronary artery bypass graft surgery (CABGS) or knee arthroplasty (knee replacement) (KPRO). Comparison summary data for SSIs, expressed as a Standardized Infection Ratio (SIR), are presented by hospital for CABGS and KPRO surgery, respectively. Interpretation of these summary measures is provided.

## Surgical Site Infection (SSI) Standardized Infection Ratio (SIR<sup>a</sup>)

**Reportable Period: July 1, 2011- June 30, 2012**

**Coronary Artery Bypass Graft Surgery (CABGS)**

### STATEWIDE

Hospital	City	Observed [O] Number of SSIs <sup>b</sup>	Number of CABGS Performed <sup>c</sup>	Statistically "Expected" [E] Number of SSIs <sup>d</sup>	Hospital-specific SIR <sup>e</sup> =O/E	95% Confidence Interval [CI] <sup>f</sup>		Statistical Interpretation
						Lower Bound <sup>g</sup>	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	4	392	5.13	0.78	0.21	2.00	Similar
ADVOCATE CONDELL MEDICAL CENTER**	LIBERTYVILLE	0	135	1.81	0	-----	2.04	Similar
ADVOCATE GOOD SAMARITAN HOSPITAL	DOWNERS GROVE	1	155	1.61	0.622	0.02	3.47	Similar
ADVOCATE GOOD SHEPHERD HOSPITAL**	BARRINGTON	0	125	1.25	0	-----	2.96	Similar
ALEXIAN BROTHERS MEDICAL CENTER	ELK GROVE VILLAGE	1	118	1.43	0.702	0.02	3.91	Similar
CARLE FOUNDATION HOSPITAL	URBANA	5	282	3.66	1.367	0.44	3.19	Similar
CENTEGRA HOSPITAL**	MCHENRY	0	121	1.81	0	-----	2.04	Similar
CENTRAL DUPAGE HOSPITAL**	WINFIELD	0	214	2.55	0	-----	1.45	Similar
EDWARD HOSPITAL**	NAPERVILLE	0	168	1.69	0	-----	2.19	Similar
ELMHURST MEMORIAL HOSPITAL	ELMHURST	1	67	1.02	0.978	0.03	5.45	Similar
FRANCISCAN ST. JAMES HEALTH**	CHICAGO HEIGHTS	0	88	1.13	0	-----	3.27	Similar
GOOD SAMARITAN REGIONAL HEALTH CENTER**	MOUNT VERNON	0	66	1.16	0	-----	3.18	Similar

JOHN H STROGER JR HOSPITAL OF COOK COUNTY	CHICAGO	1	86	1.07	0.935	0.02	5.21	Similar
LOYOLA UNIVERSITY MEDICAL CENTER	Maywood	1	255	4.02	0.25	0.01	1.39	Similar
MACNEAL HOSPITAL	BERWYN	1	65	1.41	0.709	0.02	3.95	Similar
MEMORIAL HOSPITAL	BELLEVILLE	3	154	2.36	1.273	0.26	3.72	Similar
MEMORIAL HOSPITAL OF CARBONDALE**	CARBONDALE	0	117	1.53	0	-----	2.41	Similar
MEMORIAL MEDICAL CENTER**	SPRINGFIELD	0	239	3.34	0	-----	1.10	Similar
METHODIST MEDICAL CENTER OF ILLINOIS	PEORIA	3	86	1.47	2.048	0.42	5.98	Similar
NORTHSHORE UNIV HS EVANSTON HOSPITAL	EVANSTON	1	125	2.00	0.499	0.01	2.78	Similar
NORTHWEST COMMUNITY HOSPITAL**	ARLINGTON HEIGHTS	0	160	1.62	0	-----	2.28	Similar
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	1	241	3.39	0.295	0.01	1.65	Similar
OSF SAINT ANTHONY MEDICAL CENTER	ROCKFORD	1	191	2.26	0.442	0.01	2.46	Similar
OSF SAINT FRANCIS MEDICAL CENTER**	PEORIA	0	203	3.20	0	-----	1.15	Similar
PALOS COMMUNITY HOSPITAL	PALOS HEIGHTS	1	186	1.67	0.598	0.02	3.33	Similar
PROVENA MERCY MEDICAL CENTER	AURORA	1	135	1.53	0.653	0.02	3.64	Similar
PROVENA SAINT JOSEPH MEDICAL CENTER	JOLIET	2	212	2.63	0.762	0.09	2.75	Similar
RESURRECTION MEDICAL CENTER	CHICAGO	4	140	1.98	2.02	0.55	5.17	Similar
RIVERSIDE MEDICAL CENTER**	KANKAKEE	0	105	1.02	0	-----	3.61	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	90	1.56	0.642	0.02	3.58	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	2	99	1.58	1268	0.15	4.58	Similar
RUSH-COPLEY MEDICAL CENTER**	AURORA	0	123	2.23	0	-----	1.65	Similar
ST ELIZABETH'S HOSPITAL**	BELLEVILLE	0	89	1.42	0	-----	2.60	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	2	293	4.42	0.453	0.06	1.64	Similar
SWEDISH AMERICAN HOSPITAL**	Rockford	0	127	1.54	0	-----	2.39	Similar

SWEDISH COVENANT HOSPITAL**	CHICAGO	0	103	1.60	0	-----	2.31	Similar
TRINITY MEDICAL CENTER-ROCK ISLAND**	Rock Island	0	151	1.80	0	-----	2.05	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	2	124	2.05	0.978	0.12	3.53	Similar
ADVENTIST HINSDALE HOSPITAL**	HINSDALE	0	54	0.58	-----			Not Available
ADVENTIST LA GRANGE MEMORIAL HOSPITAL	LA GRANGE	1	34	0.42	-----			Not Available
ADVOCATE BROMENN MEDICAL CENTER**	NORMAL	0	32	0.36	-----			Not Available
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER	CHICAGO	1	65	0.94	-----			Not Available
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	1	81	0.75	-----			Not Available
BLESSING HOSPITAL	QUINCY	1	64	0.69	-----			Not Available
DECATUR MEMORIAL HOSPITAL**	DECATUR	0	70	0.67	-----			Not Available
HEARTLAND REGIONAL MEDICAL CENTER**	MARION	0	32	0.49	-----			Not Available
INGALLS HOSPITAL**	HARVEY	0	41	0.46	-----			Not Available
LOUIS A WEISS MEMORIAL HOSPITAL*	CHICAGO	-----	-----	-----	-----			Not Available
LOYOLA GOTTLIEB MEMORIAL HOSPITAL**	Melrose Park	0	63	0.74	-----			Not Available
MERCY HOSPITAL & MEDICAL CENTER	CHICAGO	1	42	0.54	-----			Not Available
METROSOUTH MEDICAL CENTER**	BLUE ISLAND	0	37	0.39	-----			Not Available
MOUNT SINAI HOSPITAL**	CHICAGO	0	34	0.44	-----			Not Available
NORTHSHORE UNIV HS HIGHLAND PARK HOSPITAL**	HIGHLAND PARK	0	50	0.67	-----			Not Available
NORTHSHORE UNIV HS SKOKIE HOSPITAL	Skokie	3	38	0.58	-----			Not Available
OSF ST JOSEPH MEDICAL CENTER**	BLOOMINGTON	0	52	0.58	-----			Not Available
PROCTOR HOSPITAL**	PEORIA	0	29	0.32	-----			Not Available
PROVENA COVENANT MEDICAL CENTER**	URBANA	0	75	0.72	-----			Not Available
PROVENA SAINT JOSEPH HOSPITAL**	ELGIN	0	30	0.37	-----			Not Available

SAINT JOSEPH HOSPITAL ***	CHICAGO	2	50	0.39	-----			Not Available
SAINTS MARY AND ELIZABETH MEDICAL CENTER**	CHICAGO	0	57	0.84	-----			Not Available
SHERMAN HOSPITAL**	ELGIN	0	70	0.85	-----			Not Available
ST FRANCIS HOSPITAL**	EVANSTON	0	58	0.54	-----			Not Available
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO**	CHICAGO	0	29	0.37	-----			Not Available
VHS WEST SUBURBAN MEDICAL CENTER	OAK PARK	1	32	0.38	-----			Not Available
VHS WESTLAKE HOSPITAL*	Melrose Park	-----	-----	-----	-----			Not Available
VISTA MEDICAL CENTER EAST	WAUKEGAN	1	44	0.53	-----			Not Available

<sup>a</sup> The Standardized Infection Ratio (SIR) is a summary measure used to compare the surgical site infection (SSI) experience amongst a group of patients undergoing a specific procedure in a given hospital to that of a standard population. It is the observed number of infections divided by the expected number of infections.

<sup>b</sup> Excludes Superficial Incisional Secondary (SIS) and Deep Incisional Secondary (DIS) SSIs.

<sup>c</sup> Reporting on too few procedures is a risk to patient confidentiality. If there are twenty (20) or fewer procedures performed, the report for the number of infections will be deferred until there are more procedures performed.

<sup>d</sup> Please note that the "expected" number of infections does not mean that you expect to get an infection when you are undergo a surgical procedure.

<sup>e</sup> If the expected number of infections is < 1.0, the SIR is not calculated because it does not meet the minimum requirement for precision.

<sup>f</sup> The confidence interval for a hospital's standardized infection ratio (SIR) is the range of possible SIRs within which there is 95% confidence that the real SIR for that hospital lies, given the number of infections and procedures that were observed in that hospital in a specific time period.

<sup>g</sup> The lower bound of the confidence interval is calculated only if the infection count > 0.

\* 20 or fewer CABGS performed at this hospital.

\*\* Zero Infections, but too few procedures performed to determine whether this is significantly better than expected.

\*\*\* Too few procedures performed to determine whether this is significantly better than expected.

**Interpretation of the SIR:** All conclusions are based on the assumption that the hospital's surgical population is similar to the NHSN pooled patient population.

If the 95% confidence interval includes 1.0, the hospital's infection rate is similar (not significantly different) from "expected" (predicted).

If the SIR is greater than 1.0 and the 95% confidence interval does not include 1.0, the hospital's infection rate is significantly higher than "expected" (predicted).

If the SIR is less than 1.0 and the 95% confidence interval does not include 1.0, the hospital's infection rate is significantly lower than "expected" (predicted). All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.